

PHOTOGRAPHIC INTERPRETATION REPORT



HF COMMUNICATIONS
FACILITIES AT NOVOSIBIRSK,
DROVYANAYA,
OLOVYANNAYA,
AND SVOBODNYI
ICBM COMPLEXES, USSR

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OCTOBER 1967
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NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

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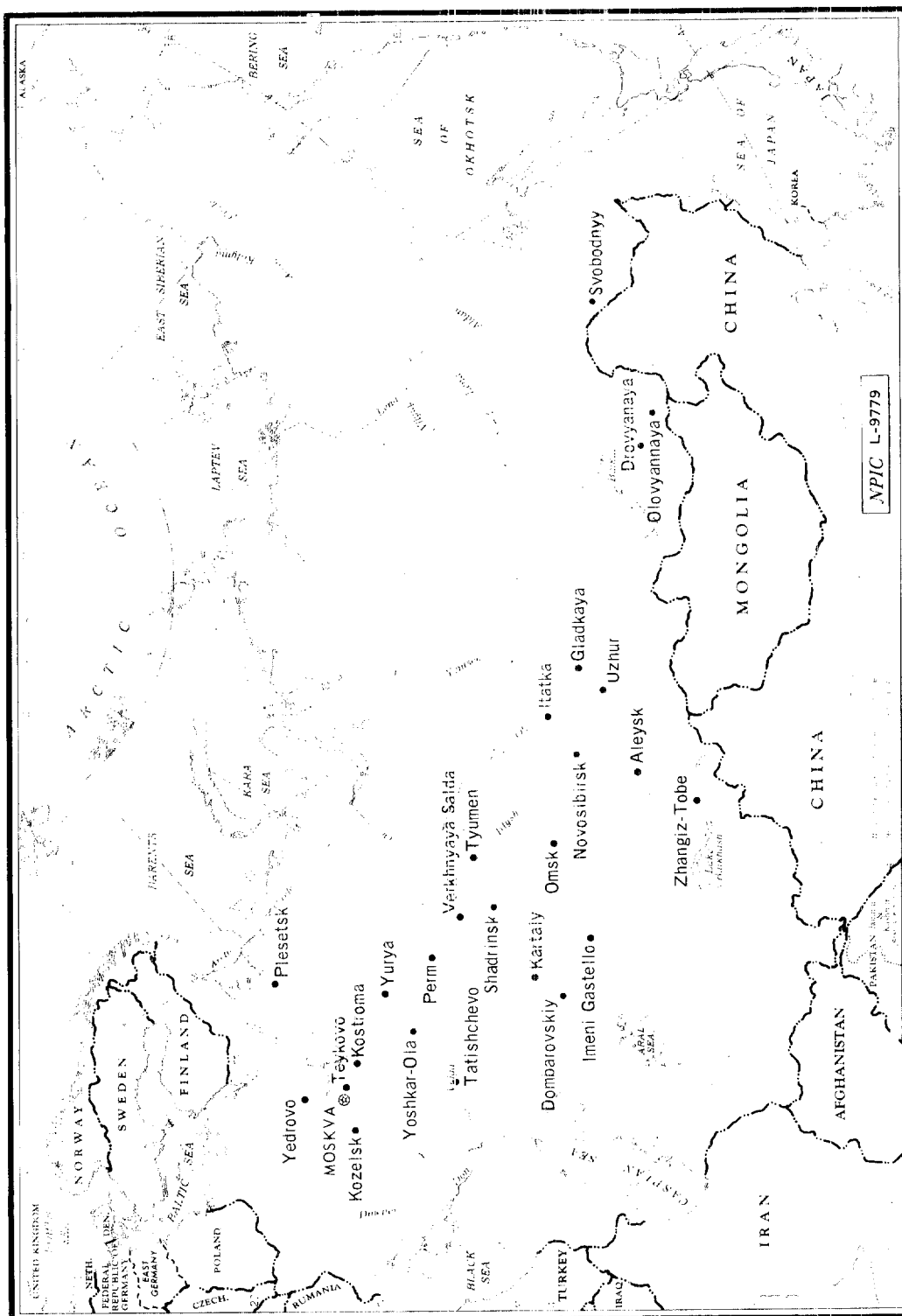


FIGURE 1. LOCATION OF DEPLOYED SOVIET ICBM COMPLEXES.

INTRODUCTION

This report is in response to NSA requirement [] which requests a photographic interpretation of the high frequency (HF) communications facilities associated with the Soviet ICBM launch complexes. These communications facilities will be reported in 3 parts. This part, Part 1, will describe the HF communications facilities at the Novosibirsk, Drovyanaya, Olovyannaya, and Svobodnyy ICBM

Launch Complexes (Figure 1). Parts 2 and 3 will describe the HF communications facilities at 9 other ICBM launch complexes. Eight other HF communications facilities at ICBM launch complexes were recently described in 2 previous reports. 1/, 2/

Table 1 presents a summary of the type, dimensions, azimuthal orientation, and probable correspondents of each of the identified antennas in 4 HF communications facilities described in this report.

Table 1. HF Communications Facilities* at 4 ICBM Complexes

ICBM Complex	Coordinates	25X1D					
		Number	Type	Antenna			
				Azimuths (in degrees)	Dimensions (in feet)	Possible Correspondent	Negation Date
Novosibirsk	55-16N 082-59E	1	Fishbone	[]	[]	Moskva	[]
		2	Fishbone		[]	Moskva	
		3	Microwave		Undetermined	Undetermined	
Drovyanaya	51-31N 113-03E	1	Dipole		180	Undetermined	
		1	Fishbone		650 x 150	Arkhangelsk	
		2	Fishbone		650 x 150	Arkhangelsk	
		3	Microwave		Undetermined	Undetermined	
		4	Hardened (Subsurface)		120 x 55	Arkhangelsk	
Olovyannaya	50-52N 115-49E	5	Hardened (Subsurface)		160 x 70	Undetermined	
		1	Fishbone		625 x 190	Tyuratam	
		2	Fishbone		625 x 190	Tyuratam	
		3	Fishbone		[]	Moskva	
		4	Fishbone		[]	Moskva	
		5	Hardened (Subsurface)		100 x 55	Moskva	
Svobodnyy	51-48N 128-10E	6	Hardened (Subsurface)		160 x 80	Undetermined	
		7	Dipole		200	Plesetsk	
		1	Fishbone		600 x 170	Moskva Area	
		2	Fishbone		600 x 170	Moskva Area	
		3	Fishbone		600 x 150	Drovyanaya	
		4	Fishbone		600 x 150	Drovyanaya	
		5	Fishbone		450 x 150	Bratsk	
		6	Dipole		220	Bratsk	
		7	Hardened (Subsurface)		130 x 60	Moskva	

*Each control building is earth mounded.

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HF COMMUNICATIONS FACILITY AT THE NOVOSIBIRSK ICBM COMPLEX



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FIGURE 2. HF COMMUNICATIONS FACILITY AT NOVOSIBIRSK ICBM COMPLEX.

The Novosibirsk HF communications facility (Figure 2) is on the north edge of the Novosibirsk complex support facility. The antenna field consists of 2 fishbone antennas, 1 dipole

antenna, 1 probable dipole antenna, 2 microwave antennas, a possible hardened (subsurface) antenna, and an earth-mounded control building.

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HF COMMUNICATIONS FACILITY AT THE DROVYANAYA ICBM COMPLEX



FIGURE 3. HF COMMUNICATIONS FACILITY AT DROVYANAYA ICBM COMPLEX.

The Drovyanaya HF communications facility (Figure 3) is 1.5 nautical miles (nm) east-southeast of the Drovyanaya complex support facility. The antenna field consists of 2

fishbone antennas, 1 microwave antenna, and 2 hardened (subsurface) antennas. The control building is earth mounded.

HF COMMUNICATIONS FACILITY AT THE OLOVYANNAYA ICBM COMPLEX

FIGURE 4. HF COMMUNICATIONS FACILITY AT OLOVYANNAYA ICBM COMPLEX.

The Olovyannaya HF communications facility (Figure 4) is 2.5 nm north of the Olovyannaya complex support facility. The antenna field

consists of 4 fishbone antennas, 1 dipole antenna, and 2 hardened (subsurface) antennas. The control building is earth mounded.

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HF COMMUNICATIONS FACILITY AT THE SVOBODNY ICBM COMPLEX



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FIGURE 5. HF COMMUNICATIONS FACILITY AT SVOBODNY ICBM COMPLEX.

The Svobodny HF communications facility (Figure 5) is 2.5 nm north-northeast of the Svobodny complex support facility. The antenna

field consists of 5 fishbone antennas, 1 dipole antenna, and 2 hardened (subsurface) antennas. The control building is earth mounded.

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REFERENCES

PHOTOGRAPHY

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MAPS OR CHARTS

ACIC series, scale 1:200,000

DOCUMENTS

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1. NPIC. [redacted] *HF Communications Facilities at Zhargiz-Tobe, Imeni Gastello, Uzhur, and Teykhovo ICBM Launch Complexes, USSR*, Mar 67 (TOP SECRET [redacted])

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2. NPIC. [redacted] *HF Communications Facilities at Yoshkar-Oka, Shadrinsk, Dombarovskiy, and Tatishchevo ICBM Complexes, USSR*, Jul 67 (TOP SECRET [redacted])

REQUIREMENTS

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CIA. C-RR6-83,543

NPIC PROJECT

11253/66 (partial answer)

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